

Title (en)
COMPOSITIONS, METHODS, AND ARTICLES RELATING TO IN-SITU CROSSLINKING OF POLYAMIDES DURING ADDITIVE MANUFACTURING

Title (de)
ZUSAMMENSETZUNGEN, VERFAHREN UND ARTIKEL ZUR IN-SITU-VERNETZUNG VON POLYAMIDEN IN DER GENERATIVEN FERTIGUNG

Title (fr)
COMPOSITIONS, PROCÉDÉS ET ARTICLES RELATIFS À LA RÉTICULATION IN SITU DE POLYAMIDES PENDANT LA FABRICATION ADDITIVE

Publication
EP 4006080 A1 20220601 (EN)

Application
EP 21209709 A 20211122

Priority
US 202017104365 A 20201125

Abstract (en)
Particles may be produced that comprise an unsaturated polyamide and an initiator. Said particles may be used in additive manufacturing methods that comprise: depositing the particles optionally in combination with other thermoplastic polymer particles upon a surface; and once deposited, heating at least a portion of the particles to promote consolidation thereof and crosslinking of the unsaturated polyamide, thereby forming a consolidated body comprising a crosslinked polyamide.

IPC 8 full level
B29C 64/00 (2017.01); **B29C 64/153** (2017.01); **C08G 69/00** (2006.01); **C08G 69/04** (2006.01); **C08K 3/36** (2006.01); **C08L 77/00** (2006.01)

CPC (source: CN EP KR US)
B29C 64/153 (2017.07 - EP KR); **B33Y 70/00** (2014.12 - CN EP); **C08G 69/00** (2013.01 - EP); **C08G 69/04** (2013.01 - EP); **C08J 3/126** (2013.01 - KR); **C08J 3/24** (2013.01 - CN); **C08K 3/36** (2013.01 - EP); **C08L 77/00** (2013.01 - CN EP); **C09D 177/06** (2013.01 - US); **B33Y 10/00** (2014.12 - KR); **B33Y 70/00** (2014.12 - KR); **C08J 2377/00** (2013.01 - CN); **C08J 2377/02** (2013.01 - KR)

Citation (applicant)
• "Handbook of Thermoplastic Elastomers", 1988, VAN NOSTRAND REINHOLD
• S.R. WILSON R.A. SAWICKI, J. ORG. CHEM., vol. 44, 1979, pages 287 - 291

Citation (search report)
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• [X] CN 104194326 A 20141210 - LIHE WUHAN NEW CHEMICAL MATERIALS CO LTD
• [X] EP 3510101 A1 20190717 - INEOS STYROLUTION GROUP GMBH [DE]
• [XP] EP 3789421 A1 20210310 - XEROX CORP [US]

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 4006080 A1 20220601; CN 114539765 A 20220527; JP 2022084025 A 20220606; KR 20220072766 A 20220602; US 2022162474 A1 20220526

DOCDB simple family (application)
EP 21209709 A 20211122; CN 202111317969 A 20211109; JP 2021191212 A 20211125; KR 20210160307 A 20211119; US 202017104365 A 20201125